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DATE MAILED: 06/16/2006

APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/522,562		01/18/2005	Akira Kato	36856.1315	8760		
54066	7590	06/16/2006		EXAM	EXAMINER		
		FACTURING CO	KINKEAD, ARNOLD M				
		ENNETT, LLP		ABTURNET	DA DED AU LA DED		
8180 GREE	NSBORC) DRIVE	ART UNIT	PAPER NUMBER			
SUITE 850				2817	·		
MCLEAN,	VA 221	02					

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	<u>h</u>			
		10/522,562	KATO, AKIRA	. 1			
	Office Action Summary	Examiner	Art Unit				
		Arnold M. Kinkead	2817				
Pariod fo	The MAILING DATE of this communication app	ears on the cover sheet w	ith the correspondence address				
Period fo	• •	/ IC CET TO EVOIDE * A	AONTHAN OF THEFT (20) PAY	^			
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a will apply and will expire SIX (6) MOI cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communicati BANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>Prel.</u>	Amdt.					
2a)☐	This action is FINAL . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.[). 11, 453 O.G. 213.				
Dispositi	on of Claims		•				
4)🖂	Claim(s) 8-20 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdraw	vn from consideration.		•			
5)	Claim(s) is/are allowed.						
	Claim(s) <u>8-12,14,15 and 19</u> is/are rejected.			•			
	Claim(s) <u>13,16-18 and 20</u> is/are objected to.						
8)[]	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers						
9)[The specification is objected to by the Examine	r.					
10)⊠	The drawing(s) filed on <u>18 January 2005</u> is/are:	a)⊠ accepted or b) ☐ o	bjected to by the Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct			(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attache	d Office Action or form PTO-152.				
Priority (ınder 35 U.S.C. § 119						
_	Acknowledgment is made of a claim for foreign ☑ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents	s have been received in A	Application No				
	3. Copies of the certified copies of the prior	- -	received in this National Stage				
	application from the International Bureau	, , , , , , , , , , , , , , , , , , , ,					
* 8	See the attached detailed Office action for a list	of the certified copies not	received.				
Attachmen	t(s)						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date				
3) 🛛 Infor	e of Dransperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		nformal Patent Application (PTØ-152)				

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DETAILED ACTION

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Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed

of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the

rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public

use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

3. Claims 8,9,10,11,12,14,15,and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Helle et al.

(US 4,412,188).

The reference by Helle et al discloses a temperature compensated piezo-electric oscillator(see figure 7),

with piezo-element(1), an AT cut type(see background), as well as an amplifier(2) and variable capacitor(Cv,

a varactor). A compensation voltage generating circuit including two separate ambient temperature control

circuits with output terminals(7,8). These two circuits allow for complementary variable voltages to be

developed dependent on the ambient temperature. Thermo-sensitive elements(RT3,RT4,thermistors) with a

plurality of resistors are shown((R4,5; R14,15) in addition to others. The first and second voltage generating

circuits includes the parallel circuit connected to respective terminals of the piezo oscillator and comprises a

first thermo sensitive element(RT1) and resistor (R4); the other parallel circuit(RT5,R15). Note second parallel circuits(RT2,R5) and (RT4,R14) connected in series to the first pair of parallel circuits.

Allowable Subject Matter

4. Claims 13,16-18 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold M. Kinkead whose telephone number is 571-272-1763. The examiner can normally be reached on Mon-Fri, 8:30 am -5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Arnold M Kinkead Primary Examiner Art Unit 2817

Arnold Kinkead June 8, 2006